



DA-003-001113

Seat No. _____

B. Sc. (Sem. I) Examination

March - 2022

Zoology

*(Non chordates, forms & function, cell biology & histology,
Ecology, Wild life & bird watching forensic science,
fisheries biology)*

(Old Course)

Faculty Code : 003

Subject Code : 001113

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) Illustrate your answer with neat and
(2) Figures to right side indicate full marks.

1 Give the answer of following questions. **20**

- (1) Leucosolenia` belongs to which phylum?
- (2) How many ovaries present in earth worm?
- (3) Define diploblastic
- (4) Camel is showing _____ adaptation
- (5) The first coelomate animals are belongs to _____ phylum.
- (6) Which type of net is known as a funnel net?
- (7) Liver fluke belongs to class _____.
- (8) Give name of abiotic factor.
- (9) Earthworm move with the help of _____.
- (10) Rizoastoma belongs to which phylum?
- (11) Write function of mitochondria.
- (12) Clitellum region is joining of _____ to _____ segments in earth worm.
- (13) Write any two names of sanctuaries.
- (14) Define migration.
- (15) Give name of excretory cells of Tape worm.
- (16) Write function of peptic cell.

- (17) The scientific name of tape worm.
- (18) Kuffer cells are found in _____ organ.
- (19) A unit membrane hypothesis for plasma membrane structure was provided by _____.
- (20) Write only name of endoplasmic reticulum type.

- 2** (a) Write any **three** out of six. **6**
- (1) Give the classification of Tape worm
 - (2) General characters of porifera
 - (3) Function of endoplasmic reticulum.
 - (4) Explain cycloid scale.
 - (5) Draw mature segment of tape worm.
 - (6) Explain trawler net.
- (b) Write any **three** out of six. **9**
- (1) Give the classification of Brittle star.
 - (2) Define only type: Arboreal adaptation.
 - (3) Draw a diagram of digestive system of earthworm.
 - (4) Discuss types of feet in bird (any two).
 - (5) Discuss any one types of boat
 - (6) Discuss any one sanctuary.
- (c) Write any **two** out of five. **10**
- (1) Draw a chart of nonchordate classification with example.
 - (2) Explain: Reproductive system of earthworm.
 - (3) Explain structure of mitochondria
 - (4) Describe culex and anopheles larva
 - (5) Describe histological structure of intestine
- 3** (a) Write any **three** out of six. **6**
- (1) Draw only diagram Scolex of tape worm (with labeled)
 - (2) Give an brief account on fresh water ecology
 - (3) Discuss any one types of beak in bird.
 - (4) Discuss basic principle of forensic science.
 - (5) Describe hook net.
 - (6) Ctenoid scale.

- (b) Write any **three** out of six. **9**
- (1) Give salient character and examples of major animal groups of Annelida
 - (2) Describe: Septal nephridia
 - (3) Describe primary aquatic adaptation
 - (4) Describe mouth part of female culex.
 - (5) Discuss only fauna of marine national park.
 - (6) Explain: gravid segment of tape worm with diagram.
- (c) Write any **two** out of five. **10**
- (1) Classify Octopus and Dentalium
 - (2) Describe histological structure of lung.
 - (3) Describe flora and fauna of Gir national park.
 - (4) Explain: nervous system of earthworm.
 - (5) Write difference between Condriichthyes and Osteichthyes.
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